TABLE 10-2

Comparison of annual costs of various wire sizes in the selection of an electrical conductor

(Iı	nvestment in wire at lculations based on 1	\$1.75/lb; ci	urrent of 5 pper wire)	0 amperes	for	4,200	hrs/yr;	all
_	Sine of anima (AMC)							

calculations based on 1,000 ft of copper wire)						
A. Size of wire (AWG)	00	0	1	2	3	
B. Weight of wire in lb	403	319	253	201	159	
C. Investment in wire	\$705.25	\$558.25	\$442.75	\$351.75	\$278.25	
D. Resistance in ohms	0.0795	0.100	0.126	0.159	0.201	
E. Power loss in kw	0.1987	0.250	0.315	0.398	0.503	
F. Annual energy loss in				and hardran	0.505	

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E. Power loss in kw	0.1987	0.250	0.315	0.398	0.503
F. Annual energy loss in					1 100
kw-hr	835	1,050	1,323	1,670	2.111
G. Investment charges at			edining you	96 (Da 186)	nd side
16.3%	\$114.96	\$90.99	\$72.17	\$57.34	\$45.35
H. Cost of lost energy at 5.5¢					1860 / /
kw-hr	45.93	57.75	72.77	91.85	116 11

		4,00.20	4000.20	Ψ 4 42./3	Ψ331./3	34/0.2 3
D.	Resistance in ohms	0.0795	0.100	0.126	0.159	0.201
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F.	Annual energy loss in				g dibatakan	1993
	kw-hr	835	1,050	1,323	1.670	2.111
G.	Investment charges at				2000	
	16.3%	\$114.96	\$90.99	\$72.17	\$57.34	\$45.35
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kw-hr	835	1,050	1,323	1.670	2,111
G. Investment charges at			and vide Vic	en dan med	ndula estat
16.3%	\$114.96	\$90.99	\$72.17	\$57.34	\$45.35
H. Cost of lost energy at 5.50	¢				116w / -
kw-hr	45.93	57.75	72.77	91.85	116.11
I. Total annual cost assumed	i				ity b

kw-hr	835	1,050	1,323	1,670	2,111
G. Investment charges at 16.3%	\$114.96	\$90.99	\$72.17	\$57.34	\$45.35
H. Cost of lost energy at 5.5¢ kw-hr	45.93	57.75	72.77	91.85	116.11
I. Total annual cost assumed to be variable with wire			was and a		
size	\$160.89	\$148.74	\$144.94	\$149.19	\$161.46

I. Total annual cost assumed to be variable with wire size	\$160.89	\$148.74	\$144.94	\$149.19	\$161.46
kw-hr	45.93	57.75	72.77	91.85	116.11
16.3% H. Cost of lost energy at 5.5¢	\$114.96	\$90.99	\$72.17	\$57.34	\$45.35